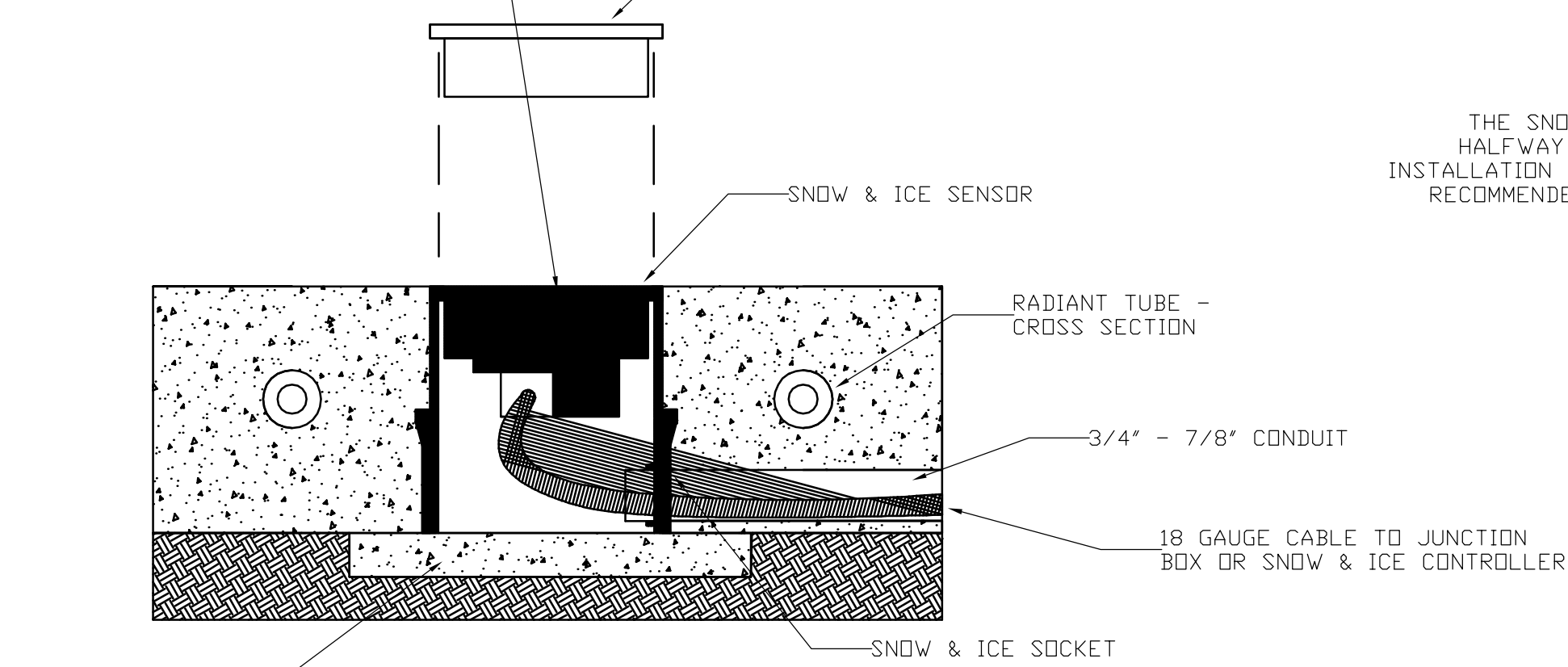


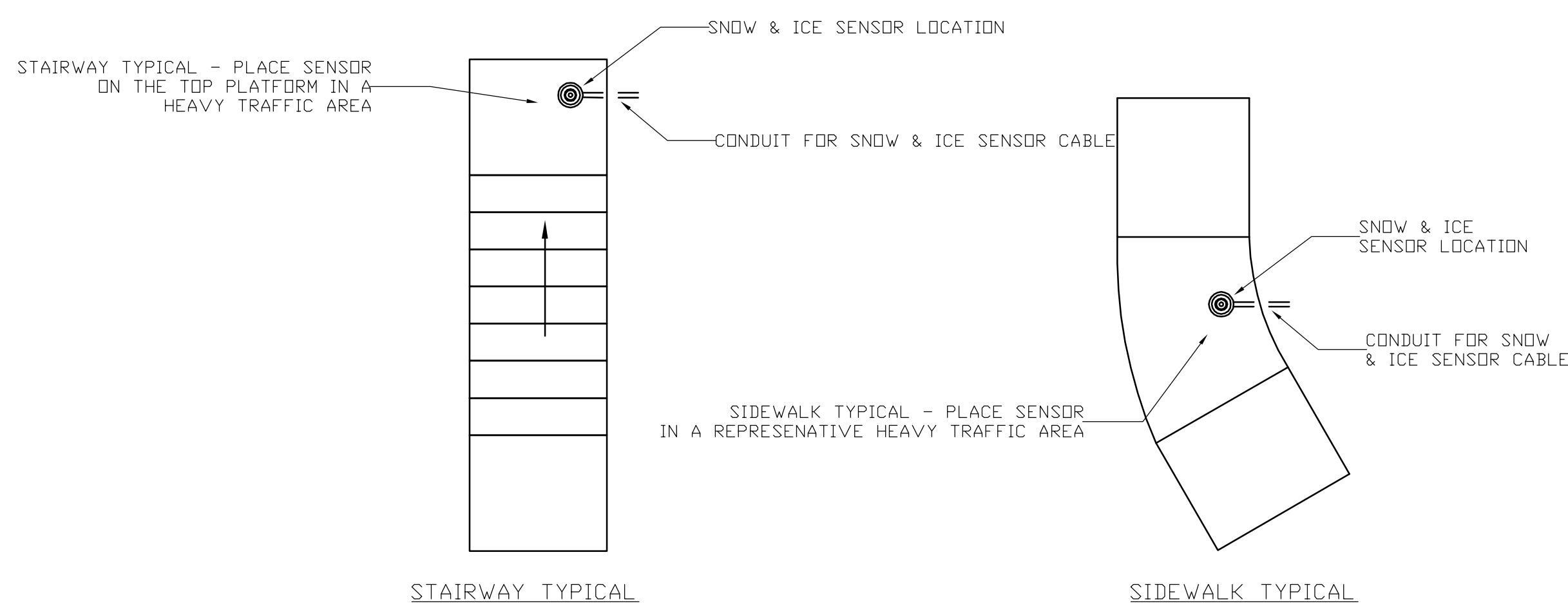
RECOMMENDED SENSOR INSTALLATION - DRIVEWAY INSTALLATIONS

THE SNOW & ICE SENSOR IS INSTALLED HALFWAY BETWEEN TWO RADIANT TUBES. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.

A WOOD PLUG CAN BE USED TO PLUG THE SENSOR SOCKET DURING CONSTRUCTION AND THE CONCRETE POURING TO ELIMINATE POSSIBLE DAMAGE TO THE SENSOR.



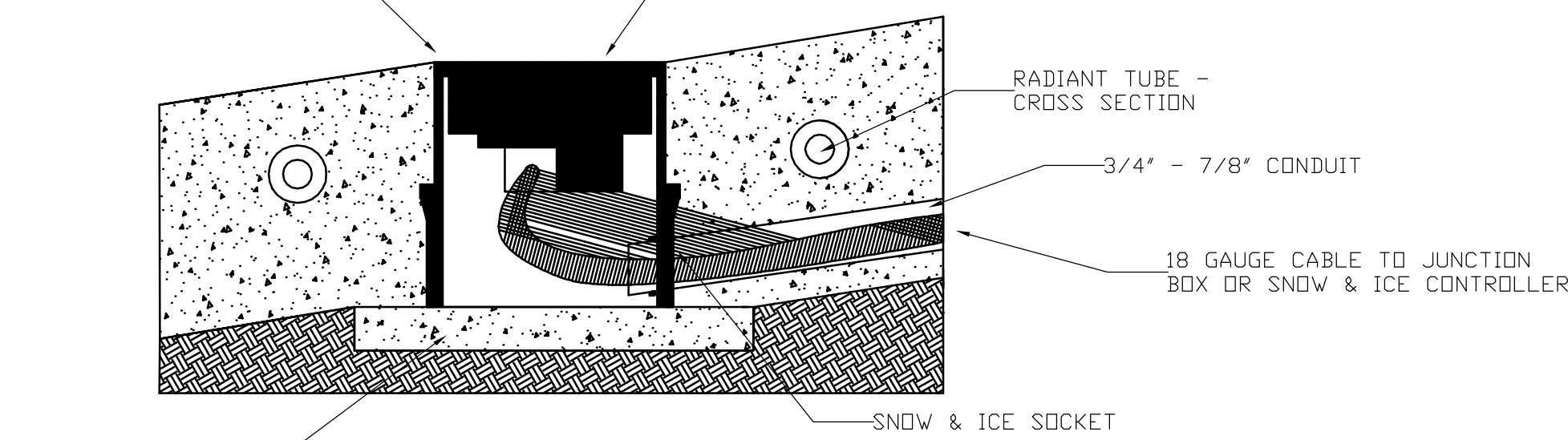
INSTALLATION OF SENSOR IN LEVEL SURFACE



RECOMMENDED SENSOR INSTALLATION - STAIRS AND SIDEWALKS INSTALLATIONS

THE SNOW & ICE SENSOR IS INSTALLED HALFWAY BETWEEN TWO RADIANT TUBES. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.

SNOW & ICE SENSOR - INSTALLED LEVEL TO HOLD WATER FOR MORE ACCURATE MOISTURE DETECTION



INSTALLATION OF SENSOR IN SLOPPED SURFACE

RADIANT SNOWMELT SYSTEM - SNOW & ICE SENSOR (WITH SOCKET) INSTALLATION

RADIANT TUBING MANIFOLD - RUBBER TUBING

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AUTHORITY**

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INTERNATIONAL AIRPORT
DULUTH, MN

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TERMINAL

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Landscaping Consultants:

APPOLD DESIGN
2432 East First Street, Duluth MN 55812
TEL: (218) 581-5079

ENGINEER CERTIFICATION

I hereby certify that the engineeringh plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota. Print Name: Douglas C. Moss

Signature: *Douglas C. Moss*

Date: 08/16/10
Reg. No.: 21067

REVISIONS

NO.	DESCRIPTION	DATE
1	BP2A ADDENDUM 2	2.25.11

DATE ISSUED: 02-25-11

REVIEWED BY: MXB

DRAWN BY: MXB

DESIGNED BY: MXB

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

RAMP SNOW MELT
SYSTEM DETAILS

SHEET NUMBER

M506

BID PACKAGE 2A
ADDENDUM 2